

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): A reflective or semi-reflective coating for optical storage media, low emissivity glass, transparent conductive displays, and electro-chromic mirrors, said coating comprising an alloy comprising:

silver in an amount of between approximately 45% by weight and approximately 99.9% by weight;

copper in an amount of between approximately 0.01% by weight and approximately 55% by weight; and

zinc in an amount of between approximately 0.01% by weight and approximately 55% by weight.

Claim 2 (currently amended): The coating of claim 1, further comprising tin.

Claim 3 (currently amended): The coating of claim 1, further comprising silicon.

Claim 4 (currently amended): The coating of claim 2, further comprising silicon.

Claim 5 (canceled)

Claim 6 (currently amended): The coating of claim 5 1, wherein said silver is between approximately 55% by weight and approximately 95% by weight.

Claim 7 (previously presented): The coating of claim 6, wherein said silver is between approximately 90% by weight and approximately 95% by weight.

Claim 8 (canceled)

Claim 9 (currently amended): The coating of claim 8 2, wherein said silver is between approximately 55% by weight and approximately 95% by weight.

Claim 10 (previously presented): The coating of claim 9, wherein said silver is between approximately 90% by weight and approximately 95% by weight.

Claim 11 (canceled)

Claim 12 (currently amended): The coating of claim ~~44~~ 3, wherein said silver is between approximately 55% by weight and approximately 95% by weight.

Claim 13 (previously presented): The coating of claim 12, wherein said silver is between approximately 90% by weight and approximately 95% by weight.

Claim 14 (canceled)

Claim 15 (currently amended): The coating of claim ~~44~~ 4, wherein said silver is between approximately 55% by weight and approximately 95% by weight.

Claim 16 (previously presented): The coating of claim 15, wherein said silver is between approximately 90% by weight and approximately 95% by weight.

Claim 17 (canceled)

Claim 18 (currently amended): The coating of claim ~~47~~ 1, wherein said copper is between approximately 0.01% by weight and approximately 10% by weight.

Claim 19 (previously presented): The coating of claim 18, wherein said copper is between approximately 0.25% by weight and approximately 5% by weight.

Claim 20 (canceled)

Claim 21 (currently amended): The coating of claim ~~20~~ 2, wherein said copper is between approximately 0.01% by weight and approximately 10% by weight.

Claim 22 (previously presented): The coating of claim 21, wherein said copper is between approximately 0.25% by weight and approximately 5% by weight.

Claim 23 (canceled)

Claim 24 (currently amended): The coating of claim ~~23~~ 3, wherein said copper is between approximately 0.01% by weight and approximately 10% by weight.

Claim 25 (previously presented): The coating of claim 24, wherein said copper is between approximately 0.25% by weight and approximately 5% by weight.

Claim 26 (canceled)

Claim 27 (currently amended): The coating of claim ~~26~~ 4, wherein said copper is between approximately 0.01% by weight and approximately 10% by weight.

Claim 28 (previously presented): The coating of claim 27, wherein said copper is between approximately 0.25% by weight and approximately 5% by weight.

Claim 29 (canceled)

Claim 30 (currently amended): The coating of claim ~~29~~ 1, wherein said zinc is in an amount of between approximately 0.01% by weight and approximately 10% by weight.

Claim 31 (previously presented): The coating of claim 30, wherein said zinc is in an amount of between approximately 0.25% by weight and approximately 5% by weight.

Claim 32 (canceled)

Claim 33 (currently amended): The coating of claim ~~32~~ 2, wherein said zinc is in an amount of between approximately 0.01% by weight and approximately 10% by weight.

Claim 34 (previously presented): The coating of claim 33, wherein said zinc is in an amount of between approximately 0.25% by weight and approximately 5% by weight.

Claim 35 (canceled)

Claim 36 (currently amended): The coating of claim ~~35~~ 3, wherein said zinc is in an amount of between approximately 0.01% by weight and approximately 10% by weight.

Claim 37 (previously presented): The coating of claim 36, wherein said zinc is in an amount of between approximately 0.25% by weight and approximately 5% by weight.

Claim 38 (canceled)

Claim 39 (currently amended): The coating of claim ~~38~~ 4, wherein said zinc is in an amount of between approximately 0.01% by weight and approximately 10% by weight.

Claim 40 (previously presented): The coating of claim 39, wherein said zinc is in an amount of between approximately 0.25% by weight and approximately 5% by weight.

Claim 41 (previously presented): The coating of claim 2, comprising tin in an amount of between approximately 0.01% by weight and approximately 30% by weight.

Claim 42 (previously presented): The coating of claim 41, wherein said tin is between approximately 0.01% by weight and approximately 10% by weight.

Claim 43 (previously presented): The coating of claim 42, wherein said tin is between approximately 0.01% by weight and approximately 2% by weight.

Claim 44 (previously presented): The coating of claim 4, comprising tin in an amount of between approximately 0.01% by weight and approximately 30% by weight.

Claim 45 (previously presented): The coating of claim 44, wherein said tin is between approximately 0.01% by weight and approximately 10% by weight.

Claim 46 (previously presented): The coating of claim 45, wherein said tin is between approximately 0.01% by weight and approximately 2% by weight.

Claim 47 (previously presented): The coating of claim 3, wherein said silicon in an amount of between approximately 0.01% by weight and approximately 30% by weight.

Claim 48 (previously presented): The coating of claim 47, comprising silicon in an amount of between approximately 0.01% by weight and approximately 10% by weight.

Claim 49 (previously presented): The coating of claim 48, comprising silicon in an amount of between approximately 0.01% by weight and approximately 1% by weight.

Claim 50 (previously presented): The coating of claim 4, wherein said silicon in an amount of between approximately 0.01% by weight and approximately 30% by weight.

Claim 51 (previously presented): The coating of claim 50, comprising silicon in an amount of between approximately 0.01% by weight and approximately 10% by weight.

Claim 52 (previously presented): The coating of claim 51, comprising silicon in an amount of between approximately 0.01% by weight and approximately 1% by weight.

Claim 53 (currently amended): A reflective or semi-reflective coating for optical storage media, low emissivity glass, transparent conductive displays, and electro-chromic mirrors, said coating comprising an alloy comprising:

silver in an amount of between approximately 45% by weight and approximately 99.9% by weight;

zinc in an amount of between approximately 0.01% by weight and approximately 55% by weight; and

at least one metal selected from the group consisting of silicon and tin in an amount of between approximately 0.01% by weight and 30% by weight.

Claim 54 (previously presented): The coating of claim 53, comprising tin.

Claim 55 (previously presented): The coating of claim 53, comprising silicon.

Claim 56 (previously presented): The coating of claim 54, comprising silicon.

Claim 57 (canceled)

Claim 58 (currently amended): The coating of claim ~~57~~ 53, wherein said silver is in an amount of between approximately 55% by weight and approximately 95% by weight.

Claim 59 (previously presented): The coating of claim 58, wherein said silver is in an amount of between approximately 90% by weight and approximately 95% by weight.

Claim 60 (canceled)

Claim 61 (currently amended): The coating of claim ~~60~~ 54, wherein said silver is between approximately 55% by weight and approximately 95% by weight.

Claim 62 (previously presented): The coating of claim 61, wherein said silver is between approximately 90% by weight and approximately 95% by weight.

Claim 63 (canceled)

Claim 64 (currently amended): The coating of claim ~~63~~ 55, wherein said silver is between approximately 55% by weight and approximately 95% by weight.

Claim 65 (previously presented): The coating of claim 64, wherein said silver is between approximately 90% by weight and approximately 95% by weight.

Claim 66 (canceled)

Claim 67 (currently amended): The coating of claim ~~66~~ 56, wherein said silver is between approximately 55% by weight and approximately 95% by weight.

Claim 68 (previously presented): The coating of claim 67, wherein said silver is between approximately 90% by weight and approximately 95% by weight.

Claim 69 (canceled)

Claim 70 (currently amended): The coating of claim ~~69~~ 53, wherein said zinc is in an amount of between approximately 0.1% by weight and approximately 10% by weight.

Claim 71 (previously presented): The coating of claim 70, wherein said zinc is in an amount of between approximately 0.25% by weight and approximately 5% by weight.

Claim 72 (canceled)

Claim 73 (currently amended): The coating of claim ~~72~~ 54, wherein said zinc is in an amount of between approximately 0.01% by weight and approximately 10% by weight.

Claim 74 (previously presented): The coating of claim 73, wherein said zinc is in an amount of between approximately 0.25% by weight and approximately 5% by weight.

Claim 75 (canceled)

Claim 76 (currently amended): The coating of claim ~~75~~ 55, wherein said zinc is in an amount of between approximately 0.01% by weight and approximately 10% by weight.

Claim 77 (previously presented): The coating of claim 76, wherein said zinc is in an amount of between approximately 0.25% by weight and approximately 5% by weight.

Claim 78 (canceled)

Claim 79 (currently amended): The coating of claim ~~78~~ 56, wherein said zinc is in an amount of between approximately 0.01% by weight and approximately 10% by weight.

Claim 80 (previously presented): The coating of claim 79, wherein said zinc is in an amount of between approximately 0.25% by weight and approximately 5% by weight.

Claim 81 (canceled)

Claim 82 (currently amended): The coating of claim ~~81~~ 54, wherein said tin is between approximately 0.01% by weight and approximately 10% by weight.

Claim 83 (previously presented): The coating of claim 82, wherein said tin is between approximately 0.01% by weight and approximately 2% by weight.

Claim 84 (canceled)

Claim 85 (currently amended): The coating of claim ~~84~~ 56, wherein said tin is between approximately 0.01% by weight and approximately 10% by weight.

Claim 86 (previously presented): The coating of claim 85, wherein said tin is between approximately 0.01% by weight and approximately 2% by weight.

Claim 87 (canceled)

Claim 88 (currently amended): The coating of claim ~~87~~ 55, comprising silicon in an amount of between approximately 0.01% by weight and approximately 10% by weight.

Claim 89 (previously presented): The coating of claim 88, comprising silicon in an amount of between approximately 0.01% by weight and approximately 1% by weight.

Claim 90 (canceled)

Claim 91 (currently amended): The coating of claim ~~90~~ 56, comprising silicon in an amount of between approximately 0.01% by weight and approximately 10% by weight.

Claim 92 (previously presented): The coating of claim 91, comprising silicon in an amount of between approximately 0.01% by weight and approximately 1% by weight.

Claim 93 (currently amended): A reflective or semi-reflective coating for optical storage media, low emissivity glass, transparent conductive displays, and electro-chromic mirrors, said coating comprising an alloy comprising:

silver in an amount of between approximately 45% by weight and approximately 99.9% by weight;

copper in an amount of between approximately 0.01% by weight and approximately 55% by weight; and

at least one metal selected from the group consisting of silicon >>and tin in an amount of between approximately 0.01% by weight and 30% by weight.

Claim 94 (previously presented): The coating of claim 93, comprising tin.

Claim 95 (previously presented): The coating of claim 93, comprising silicon.

Claim 96 (previously presented): The coating of claim 94, further comprising silicon.

Claim 97 (canceled)

Claim 98 (currently amended): The coating of claim ~~97~~ 93, wherein said silver is in an amount of between approximately 55% by weight and approximately 95% by weight.

Claim 99 (previously presented): The coating of claim 98, wherein said silver is in an amount of between approximately 90% by weight and approximately 95% by weight.

Claim 100 (canceled)

Claim 101 (currently amended): The coating of claim ~~100~~ 94, wherein said silver is between approximately 55% by weight and approximately 95% by weight.

Claim 102 (previously presented): The coating of claim 101, wherein said silver is between approximately 90% by weight and approximately 95% by weight.

Claim 103 (canceled)

Claim 104 (currently amended): The coating of claim ~~103~~ 95, wherein said silver is between approximately 55% by weight and approximately 95% by weight.

Claim 105 (previously presented): The coating of claim 104, wherein said silver is between approximately 90% by weight and approximately 95% by weight.

Claim 106 (canceled)

Claim 107 (currently amended): The coating of claim ~~106~~ 96, wherein said silver is between approximately 55% by weight and approximately 95% by weight.

Claim 108 (previously presented): The coating of claim 107, wherein said silver is between approximately 90% by weight and approximately 95% by weight.

Claim 109 (canceled)

Claim 110 (currently amended): The coating of claim ~~109~~ 93, wherein said copper is between approximately 0.01% by weight and approximately 10% by weight.

Claim 111 (previously presented): The coating of claim 110, wherein said copper is between approximately 0.25% by weight and approximately 5% by weight.

Claim 112 (canceled)

Claim 113 (currently amended): The coating of claim ~~112~~ 94, wherein said copper is between approximately 0.01% by weight and approximately 10% by weight.

Claim 114 (previously presented): The coating of claim 113, wherein said copper is between approximately 0.25% by weight and approximately 5% by weight.

Claim 115 (canceled)

Claim 116 (currently amended): The coating of claim ~~115~~ 95, wherein said copper is between approximately 0.01% by weight and approximately 10% by weight.

Claim 117 (previously presented): The coating of claim 116, wherein said copper is between approximately 0.25% by weight and approximately 5% by weight.

Claim 118 (canceled)

Claim 119. (currently amended): The coating of claim ~~118~~ 96, wherein said copper is between approximately 0.01% by weight and approximately 10% by weight.

Claim 120. (previously presented): The coating of claim 119, wherein said copper is between approximately 0.25% by weight and approximately 5% by weight.

Claim 121. Canceled

Claim 122 (currently amended): The coating of claim ~~121~~ 94, wherein said tin is between approximately 0.01% by weight and approximately 10% by weight.

Claim 123 (previously presented): The coating of claim 122, wherein said tin is between approximately 0.01% by weight and approximately 2% by weight.

Claim 124 (canceled)

Claim 125 (currently amended): The coating of claim ~~124~~ 96, wherein said tin is between approximately 0.01% by weight and approximately 10% by weight.

Claim 126 (previously presented): The coating of claim 125, wherein said tin is between approximately 0.01% by weight and approximately 2% by weight.

Claim 127 (canceled)

Claim 128 (currently amended): The coating of claim ~~127~~ 95, comprising silicon in an amount of between approximately 0.01% by weight and approximately 10% by weight.

Claim 129 (previously presented): The coating of claim 128, comprising silicon in an amount of between approximately 0.01% by weight and approximately 1% by weight.

Claim 130 (canceled)

Claim 131 (currently amended): The coating of claim ~~430~~ 96, comprising silicon in an amount of between approximately 0.01% by weight and approximately 10% by weight.

Claim 132 (previously presented): The coating of claim 131, comprising silicon in an amount of between approximately 0.01% by weight and approximately 1% by weight.

Claim 133 (previously presented): An optical storage medium comprising the coating of claim 1.

Claim 134 (previously presented): An optical storage medium comprising the coating of claim 53.

Claim 135 (previously presented): An optical storage medium comprising the coating of claim 93.

Claim 136 (previously presented): A low emissivity glass comprising the coating of claim 1.

Claim 137 (previously presented): A low emissivity glass comprising the coating of claim 53.

Claim 138 (previously presented): A low emissivity glass comprising the coating of claim 93.

Claim 139 (previously presented): A transparent conductive display comprising the coating of claim 1.

Claim 140 (previously presented): A transparent conductive display comprising the coating of claim 53.

Claim 141 (previously presented): A transparent conductive display comprising the coating of claim 93.

Claim 142 (previously presented): An electro-chromic mirror comprising the coating of claim 1.

Claim 143 (previously presented): An electro-chromic mirror comprising the coating of claim 53.

Claim 144 (previously presented): An electro-chromic mirror comprising the coating of claim 93.

Claim 145 (currently amended): A method for physical deposition of a reflective or semi-reflective coating onto a substrate comprising the steps of:

providing a coating alloy comprising silver in the amount of between approximately 45% by weight and approximately 99.9% by weight, zinc in the amount of between approximately 0.01% by weight and approximately 55% by weight and copper in the amount of between approximately 0.01% by weight and approximately 55% by weight; and

physically depositing the coating on the substrate.

Claim 146 (currently amended): The method of claim 145₁ wherein the coating alloy further comprises tin.

Claim 147 (currently amended): The method of claim 145₁ wherein the coating alloy further comprises silicon.

Claim 148 (currently amended): The method of claim 146₁ wherein the coating alloy further comprises silicon.

Claim 149 (previously presented): The method of claim 145₁ wherein the step of physically depositing comprises utilizing at least one deposition technique selected from the group consisting of sputtering, thermal evaporation, physical vapor deposition, electrolytic plating, and electroless plating.

Claim 150 (currently amended): A method for physical deposition of a reflective or semi-reflective coating onto a substrate comprising the steps of:

providing a coating alloy comprising silver in the amount of between approximately 45% by weight and approximately 99.9 % by weight, zinc in the amount of between approximately 0.01% by weight and approximately 55% by weight and at least one component selected from the group consisting of silicon in the amount of between approximately 0.01% by weight and approximately 30% by weight and tin in the amount of between approximately 0.01% by weight and approximately 30% by weight; and

physically depositing the coating on the substrate.

Claim 151 (currently amended): The method of claim 150, wherein the coating alloy comprises tin.

Claim 152 (currently amended): The method of claim 150, wherein the coating alloy comprises silicon.

Claim 153 (currently amended): The method of claim 151, wherein the coating alloy further comprises silicon.

Claim 154 (previously presented): The method of claim 150, wherein the step of physically depositing comprise utilizing at least one deposition technique selected from the group consisting of sputtering, thermal evaporation, physical vapor deposition, electrolytic plating, and electroless plating.

Claim 155 (currently amended): A method for physical deposition of a reflective or semi-reflective coating onto a substrate comprising the steps of:

providing a coating alloy comprising silver in the amount of between approximately 45% by weight and approximately 99.9% by weight, copper in the amount of between approximately 0.01% by weight and approximately 55% by weight and at least one component selected from the group consisting of silicon in the amount of between approximately 0.01% by weight and approximately 30% by weight and tin in the amount of between 0.01% by weight and approximately 30% by weight; and physically depositing the coating on the substrate.

Claim 156 (currently amended): The method of claim 155, wherein the coating alloy comprises.

Claim 157 (currently amended): The method of claim 155, wherein the coating alloy comprises silicon.

Claim 158 (currently amended): The method of claim 156, wherein the coating alloy further comprises silicon.

Claim 159 (currently amended): The method of claim 155, wherein the step of physically depositing comprises utilizing at least one deposition technique selected from the group consisting of sputtering, thermal evaporation, physical vapor deposition, electrolytic plating, and electroless plating.